

Project Summary

PROJ-SUM

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Revised Aug 2019

General Info <i>This PROJ-SUM form shall be provided as a cover sheet for all compliance form submittals. Project Title shall match plans title block.</i>	Project Title: CheryStreet Mixed Use	Date 3/8/2021
	Project Street Address: 2514-2518 E Cherry St	For SDCI Use
	Project City, County, Zip: Seattle, King, 98122	
	Project Owner or Rep: Dunn & Hobbs LLC	
	Jurisdiction:	

Project Description <i>Select all that apply to the scope of project.</i> <i>Select Addition + Existing or Alteration + Existing if the existing building will be combined with the addition or alteration to demonstrate compliance per Section C502.1 or C503.1.</i>	New Construction and Additions <input checked="" type="checkbox"/> New Building <input type="checkbox"/> Building Addition		
	Existing Building Retrofit <input type="checkbox"/> Alteration <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Change in Space Conditioning <input type="checkbox"/> Historic Building		
	Building Elements Scope - Select all that apply <input checked="" type="checkbox"/> All <input type="checkbox"/> Building Envelope <input type="checkbox"/> Mechanical Systems <input type="checkbox"/> Service Hot Water Systems <input type="checkbox"/> Lighting Systems <input type="checkbox"/> Electrical Systems		

Occupancy Type	<input type="radio"/> All Commercial <input type="radio"/> Group R - R2, R3, & R4 over 3 stories and all R1 <input checked="" type="radio"/> Mixed Use		
	Mixed Use - Building is greater than three stories above grade and it has both Commercial and Group R occupancies.		
	Mixed Occupancy - Building is three stories or less above grade and it has both Commercial and Group R2, R3 or R4 occupancies. Select All Commercial to document compliance for the commercial areas of the building. The residential spaces shall comply with the WSEC Residential Provisions.		

Space Conditioning Categories <i>Select all that apply to the scope of project</i>	<input checked="" type="checkbox"/> Fully Conditioned <input type="checkbox"/> Semi-heated ² <input type="checkbox"/> Refrigerated Spaces (Warehouse and/or Walk-in ¹) <input type="checkbox"/> Low Energy Space Category ³		
	Eligible Low Energy Spaces <input type="checkbox"/> Unconditioned <input type="checkbox"/> Low energy heating/cooling capacity <input type="checkbox"/> Wireless service equipment shelter <input type="checkbox"/> Greenhouse ⁴ <input type="checkbox"/> Equipment building		

Floor Area and Stories	Floors Above Grade	Building Gross Conditioned Floor Area	Project Gross Conditioned Floor Area
	4	26,400	26400.0

General Compliance Path	<input checked="" type="radio"/> Prescriptive/Component Performance <input type="radio"/> Total Building Performance <input type="radio"/> Target Performance Path		
	Prescriptive / Component Performance - Projects shall demonstrate compliance with all applicable mandatory and prescriptive requirements of this code. Refer to C401.2, Item 1 for more information. Compliance forms to include with a Prescriptive submittal: All applicable ENV, LTG, and MECH.		
	Total Building Performance - Projects complying via total building performance (TBP) shall include a summary of results from a whole building energy model per Section C407 and shall demonstrate compliance with all applicable mandatory provisions in this Code. Refer to Section C401.2, Item 2 for more information. Compliance forms to include with a TPB submittal: PROJ-SUM, ENV-CHK, LTG-EXT, LTG-CHK, and the Energy Analysis Summary.		
	Target Performance Path - Projects complying via the Target Performance Path (TPP) shall include a summary of results from a whole building energy model per Section C407 and shall demonstrate compliance with all applicable mandatory provisions of C401.3.3. Refer to Section C401.3 for more information.		

- Note 1** - Refrigerated Spaces - They shall comply with the envelope and refrigeration equipment requirements in Section C410. Warehouse coolers and freezers shall also comply with the envelope requirements in C402. C410 takes precedence for overlapping requirements.
- Note 2** - Semi-heated Spaces - If heated with equipment other than electric resistance may take an exemption for wall insulation. All other envelope assemblies shall comply with the thermal envelope provisions.
- Note 3** - Exemptions For Low Energy Spaces - Low Energy spaces are exempt from all provisions in WSEC Section C402 Building Envelope, however all other applicable provisions in the Code do apply including lighting, mechanical, service water heating, etc.
- Note 4** - Eligible Space Conditioning For Low Energy Greenhouses - Greenhouses are defined as spaces that maintain a specialized sunlit environment that is used exclusively for cultivation, protection and maintenance of plants. Cooling with outside air and/or evaporative cooling, and any form of heating equipment, are allowed under the Low Energy Greenhouse category. Greenhouses with cooling equipment that requires a condensing unit are NOT eligible.

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General Info	Project Title:	CheryStreet Mixed Use		Date	3/8/2021
C406 Additional Efficiency Package Options Summary <i>A minimum of two Options are required for new construction, and change in space conditioning or occupancy</i> <i>Select all Options included in the current project scope. Also select Options complied with under previous projects (shell and core, other tenant)</i> <i>Buildings with multiple tenant spaces may comply with different options (mix & match)</i> <i>Options are required for all space conditioning categories. Include discipline specific information for C406 options in ENV-SUM and LTG-SUM.</i> <i>Refer to SBCC website for official interpretations regarding C406 provisions.</i>	Building level efficiency options:		Current Scope	Previous Projects	
	C406.8 Enhanced envelope performance		<input type="checkbox"/>	<input type="checkbox"/>	
	C406.9 Reduced air infiltration		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	C406.5 On-site renewable energy		<input type="checkbox"/>	<input type="checkbox"/>	
	Building area level efficiency options				
	C406.2 More efficient HVAC equipment		<input type="checkbox"/>	<input type="checkbox"/>	
	C406.6 Dedicated outside air systems (DOAS)		<input type="checkbox"/>	<input type="checkbox"/>	
	C406.7 Reduced energy use in service water heating		<input type="checkbox"/>	<input type="checkbox"/>	
	C406.3 Reduced lighting power		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	C406.4 Enhanced digital lighting controls		<input type="checkbox"/>	<input type="checkbox"/>	
C406 Comments:					

Envelope Summary

ENV-SUM

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Revised Aug 2019

Project Info <i>Compliance forms do not require a password to use. Instructional and calculating cells are write-protected.</i>	Project Title: CheryStreet Mixed Use	Date: 03/08/2021
	<i>Applicant Information. Provide contact information for individual who can respond to inquiries about compliance form information provided.</i>	
	Company Name: Allied 8 Architecture + Design	For SDCI Use
	Company Address: 1221 E Pike St., Suite 305, Seattle, WA 98122	
	Applicant Name: Barbara Busetti	
	Applicant Phone: 206.324.2420	
Applicant Email: b@allied8.com		

Project Description	<input checked="" type="checkbox"/> New Building <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> No Envelope Scope
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Envelope Project Scope <i>Select all that apply.</i>	<input type="checkbox"/> All Commercial <input type="checkbox"/> Group R - Commercial <input checked="" type="checkbox"/> Mixed Use - Commercial + Group R <input type="checkbox"/> Semi-heated <input type="checkbox"/> Refrigerated Cooler <input type="checkbox"/> Refrigerated Freezer <input type="checkbox"/> Equipment Building
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Envelope Description <i>Provide brief description of the project and relevant supporting documentation.</i> <i>If project includes multiple Target Insulation Allowance areas, and/or is demonstrating compliance as an Addition + Existing, Alteration + Existing, or Addition + Alteration + Existing project, provide a brief summary of the approach to</i>	NEW 5-STORY MIXED USE BUILDING IN SEATTLE. TO INCLUDE COMMERCIAL TENNANT SPACES, 3 WORK/LIVE RESIDENCES, AND 36 RESIDENTIAL UNITS. THE PROJECT IS PURSUING COMPLIANCE VIA COMPONENT PERFORMANCE PATH AS SHOWN ON THE ENV-UA & ENV-SHGC FORMS.
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Air Barrier Testing <i>Air barrier testing is required for all new construction projects. Testing criteria is 0.30 cfm/ft² under test pressure of 0.3 inch w.g. To comply with C406.9, demonstrate that measured air leakage does not exceed 0.25 cfm/ft² for Group-R and 0.22 cfm/ft² for all</i>	<input checked="" type="checkbox"/> Air barrier testing per Section C402.5.1.2 included in project scope <input checked="" type="checkbox"/> Additional Efficiency Package Option - C406.9 Reduced Air Infiltration <input type="checkbox"/> Testing not required. Explanation:
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Compliance Documentation Scope and Method

Scope of This Calculation	<input checked="" type="checkbox"/> New Building <input type="checkbox"/> Addition <input type="checkbox"/> Alteration <input type="checkbox"/> No Envelope Scope
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Target Insulation Allowance <i>Sets the title and calculations in the compliance forms. Selection required to enable forms.</i>	<input checked="" type="radio"/> Fully Conditioned - Commercial, Group R, Mixed Use <input type="radio"/> Semi-heated <input type="radio"/> Refrigerated Cooler <input type="radio"/> Refrigerated Freezer <i>If project includes more than one Target Insulation Allowance area, and/or if project includes addition and alteration areas complying independently, for each area complete an ENV-SUM form Rows 16-55 and either an ENV-PRESCRIPTIVE form, or ENV-UA + ENV-SHGC forms if demonstrating compliance via component performance.</i>
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Envelope Compliance Path <i>Selection required to enable forms.</i>	<input type="radio"/> Prescriptive <input checked="" type="radio"/> Component Performance
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Component Performance Calculation Adjustments	<input type="checkbox"/> Change of Occupancy (C503.2) / Conditioning (C505) - 10% higher UA allowed <input type="checkbox"/> Additional Efficiency Package Option - C406.8 Enhanced Envelope - 15% lower UA required <input type="checkbox"/> C411 Renewable Energy, Exception 3 - 15% lower UA & non-electric resistance heat required
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Heating Energy Source <i>Refer to Section C402.4 for details and applicable exceptions</i>	<input type="radio"/> Electric Resistance or Fossil Fuel <input checked="" type="radio"/> Other Heating Energy Source <i>Prior to 1/1/2018 all projects should specify Other Heating Energy</i>
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Envelope Summary, pg. 2

ENV-SUM

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Project Title: CheryStreet Mixed Use	Date: 03/08/2021
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Additions

- ☐ Addition stand alone ☐ Addition + Existing

Addition stand alone - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing-to-remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total addition envelope assembly areas as NEW. If resulting total building WWR exceeds 30% and/or SSR exceeds 5%, refer to C502.2.1 and C502.2.2 for prescriptive compliance alternatives. If complying via component performance, complete ENV-UA per instructions for addition stand alone projects.

Addition + existing - Complete ENV-UA per instructions for addition + existing projects.

Alterations -

Fenestration and Skylight

- ☐ Replacement windows only, or resulting ☐ Total building WWR increased by alteration
☐ Replacement skylights only, or resulting ☐ Total building SRR increased by alteration
total building SRR ≤ original SRR

WWR and SRR not increased - Vertical Fenestration and Skylight Area Calculation not required.

WWR and/or SRR increased - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing-to-remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total altered envelope assembly areas as NEW. If resulting total building WWR exceeds 30% and/or SSR exceeds 5%, refer to C503.3.2 and C503.3.3 for prescriptive compliance alternatives. If complying via component performance,

Vertical Fenestration and Skylight Area Calculation

Prescriptive Path - Enter envelope sf values directly into this section of ENV-SUM for vertical fenestration, skylights, net walls and roof. For Additions and Alterations, refer to these sections in ENV-SUM for further instructions.

Component Performance - When this Envelope Compliance Path is selected, write-protection of this section is enabled. Enter envelope sf values for all assemblies into the ENV-UA form. Envelope information from

	Total Vertical Fenestration Area (rough opening)	NET Exterior Above Grade Wall Area	Total Skylight Area (rough opening)	NET Exterior Roof Area
New	5806	12305	0	7417
Existing	0	0	0	0
Total	5,806	12,305	0	7,417
	Vertical Fenestration-to-Wall Ratio (WWR) 32.1%		Skylight-to-Roof Ratio (SRR)	

Exempt Single Glass

Always enter exempt glazing area here.

Area

if complying prescriptively exempt area MUST also be included in total vertical fenestration in cell D30. If complying via component performance do not enter exempt glazing on ENV-UA or ENV-SHGC.

Vertical Fenestration Area Compliance

Vertical Fenestration Area

VERTICAL FENESTRATION AREA COMPLIES WITH MAXIMUM ALLOWED WITH FENESTRATION ALTERNATE

Skylight Area Compliance

Skylight Area

NO SKYLIGHT PROPOSED. COMPLIES WITH MAXIMUM ALLOWANCE.

Maximum Prescriptive Vertical Fenestration (%)

30% per C402.3.1

Vertical Fenestration Alternates

- ☒ High performance fenestration U-factors and SHGC per C402.4.1.3
☐ Dedicated outdoor air system per C402.4.1.4 and C403.6

Show locations of qualifying daylight zone areas and ft² on project plans.

For Daylight Zone Area Calculations -

a) Sidelight areas include primary + secondary daylight zone areas.

b) Include overlapping toplight and sidelight daylight zone areas under Toplight.

- ☐ In buildings ≥ 3 stories, 25% or more of NET floor area is in daylight zones per C402.4.1.1
☐ In buildings < 3 stories, 50% or more of CONDITIONED floor area is within DLZ per C402.4.1.1

Daylight Zone Calculations

Daylight Zone Fenestration Alternate Not Selected. No Calculations Required	Sidelight Daylight Zone Area	Toplight Daylight Zone Area	Percent Daylight Zone Area

Street Level Retail

If C402.3.1 Street Level Retail glazing exception taken for any portion of building read Street Level Retail instructions on Readme.

Street Level Retail with other areas

☐

Enter gross wall area per C402.3.1 exception requirements: **n/a**

Enter total window area in Street Level Retail qualified wall : **n/a**

Area of window transferred from other areas: **n/a**

Alterations - Fenestration and Skylight

Project Title: CheryStreet Mixed Use		Date: 03/08/2021			
Spaces in Single Story Building Requiring Skylights <i>In these spaces a minimum of 50% of the floor area shall be within a skylight daylight zone (DLZ). Refer to C402.4.2 for requirements.</i> <i>SRR = Skylight to roof ratio</i>	<i>List all enclosed spaces that exceed 2,500 ft², have ceiling height greater than 15 ft, and are space types required to comply with this provision. Indicate aperture with "AP" prefix (AP 1.1%)</i>				
	Space	Area (ft ²)	DLZ Area (ft ²)	SRR or Aperture	Exception
Envelope Exemptions					
Low Energy and Semi-heated Spaces <i>Low energy spaces per C402.1.1 Item 1 are exempt from the thermal envelope provisions. Semi-heated spaces heated by systems other than electric resistance are exempt from wall insulation provision only per C402.1.1.1.</i> <i>List all installed equipment in spaces claiming this exemption to verify eligibility based on installed peak heating and cooling capacity per sf.</i>					
Equipment Buildings <i>Equipment buildings are exempt from the thermal envelope provisions per C402.1.2.</i> <i>The following shall be met to be eligible: building size ≤ 500 sf, average wall/roof U-factor ≤ U-0.20, electronic equipment load ≥ 7 watts/sf, heating system output capacity ≤ 17,000 btu/h. Cooling system capacity not</i>		Wall Insulation R-Value	Roof Insulation R-Value	Overall Average U-Factor	
	Equipment Building Envelope				
	Electronic equipment power (watts/sf)				
	Heating system output capacity (Btu/hr)				
	Cooling capacity (Yes/No)				

Component Performance Path, pg. 1

ENV-UA

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Project Title: CheryStreet Mixed Use		Date: 03/08/2021	
Target Insulation Allowance: Fully Conditioned Space - Commercial, Group R, Mixed Use		For SDCI Use	
Calculation Adjustments: None Applied			
Fenestration Area as % gross above-grade wall area 32.1% Max. Target: 40.0%			
Skylight Area as % gross roof area Max. Target: 5.0%			
Vertical Fenestration Alternates: High Performance Vertical Fenestration			

For Stand-alone Projects^{13,14}	Vertical Fenestration	Net Wall	User Note
Existing-to-remain Areas	Skylights	Net Roof	

Envelope Component					Proposed UA			Target UA		
Cavity+Cl		Plan/Detail #	U-factor Source & Table # ²		U-factor	x Area (A)	= UA (U x A)	U-factor	x Area (A)	= UA (U x A)
Roofs	Deck	R= 30+10ci	A305/ 3	Table A102.1	0.027	6220	167.9	0.027	7417	200.3
		R= 30+10ci	A305/ 7	Table A102.1	0.027	1197	32.3	Above Deck Insulation U-0.027		
		R=						0.027		
	Mtl Bld	R=						Metal Building U-0.027		
		R=						0.027		
		R=						Joist/single rafter U-0.027		
	Joist/Rft	R=						0.027		
		R=						Single raft, attic, other U-0.021		
		R=						0.021		
Opaque Walls - Above Grade ^{4,6}	Steel	R=						0.055		
		R=						Steel/metal frame U-0.055		
		R=						0.052		
	Mtl Bld	R=						Metal Building U-0.052		
		R=						0.051		
		R=						Wood Frame, other U-0.051		
	Wood/Ot	R= 21	A701/ 1	Table A103.3.1(5)	0.054	1590	85.9	0.051	2385	121.6
		R= 21	A701/ 3	Table A103.3.1(5)	0.054	795	42.9	Mass Wall U-0.057		
		R=						0.057	2546	145.1
Group R	Mass	R= 21	A701/ 6	Table A103.3.7.1(4)	0.057	2546	145.1	Mass Transfer Deck U-0.20		
		R=						0.200		
		R=						Group R Wood/Oth. Wall U-0.054		
	Transfer	R=						0.054	6950	375.3
		R=						0.054	4046	218.5
		R=						Assumed to be Mass Wall U-0.07		
	Wood/Ot	R= 21	A701/ 1	Table A103.3.1(5)	0.054	2904	156.8	0.070	1616	113.1
		R= 21	A701/ 3	Table A103.3.1(5)	0.054	4046	218.5			
		R=						0.029		
Below Grade	Wall ⁴	R= 0	A701/ 7	Table A104.1	0.064	144	9.2	Mass Floor U-0.029		
		R= 0	A701/ 7	Table A104.1	0.056	1472	82.4	0.029		
		R=						Joist/Framing U-0.20		
	Mass	R=						0.029		
		R=						Joist/Framing U-0.029		
		R=						0.025		
	Mtl Joist	R=								
		R=								
		R=								
Floors	Wd Joist	R=								
		R=								
		R=								

	Area'	UA	Area'	UA
Page 1 Subtotal	20914	941	20914	955

Component Performance Compliance (UA)

UA COMPLIES

Component Performance Path, pg. 2

ENV-UA

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Revised Aug 2019

Project Title: CheryStreet Mixed Use						Date: 03/08/2021				
Fenestration Area as % gross above-grade wall area 32.1% Max. Target: 40.0%						For Building Department Use				
Skylight Area as % gross roof area Max. Target: 5.0%										
Building Component					Proposed UA			Target UA		
Ins. R		Plan/Detail #	F-factor Source & Table # ⁸	F-factor	x Perimeter	= FP (F x P)	F-factor	x Perimeter	= FP (F x P)	
Slab-on-grade	Unheated	R= 10	A702/ 1	Table A106.1	0.540	522	281.9	0.540	522	281.9
		R=								
	Heated	R=								
		R=								
Schedule ID				U-factor Source ^{9,10}	U-factor	x Area (A)	= UA (U x A)	U-factor	x Area (A)	= UA (U x A)
Doors ^{6,9}	Swingin	A711/ A	Manufacturer	0.370	42	15.5	0.370	364	134.7	
		A711/ C	Manufacturer	0.370	28	10.4	Opaque Swing Doors U-0.37			
		A711/ D	Manufacturer	0.300	294	88.2				
	Other	A711/ E	Manufacturer	0.125	60	7.5	0.340	60	20.4	
							Opaque rollup & sliding U-0.34			
Vertical Fenestration ^{6,10}	Non-Metal	A712/ A1	Manufacturer	0.28	263	73.6	0.28	5806	1625.7	
		A712/ A2	Manufacturer	0.25	132	33.0	Non-Metal Frame U-0.28			
		A712/ A3	Manufacturer	0.25	788	197.0				
		A712/ B1	Manufacturer	0.28	188	52.6				
		A712/ B2	Manufacturer	0.25	94	23.5				
		A712/ B3	Manufacturer	0.25	563	140.8				
		A712/ C1	Manufacturer	0.28	100	28.0				
		A712/ C2	Manufacturer	0.25	50	12.5				
		A712/ C3	Manufacturer	0.25	300	75.0				
		A712/ D1	Manufacturer	0.28	63	17.6				
		A712/ D2	Manufacturer	0.25	32	8.0				
		A712/ D3	Manufacturer	0.25	188	47.0				
		A712/ E1	Manufacturer	0.28	25	7.0				
		A712/ E2	Manufacturer	0.25	50	12.5				
		A712/ F1	Manufacturer	0.28	200	56.0				
		A712/ F2	Manufacturer	0.25	100	25.0				
		A712/ G1	Manufacturer	0.28	213	59.6				
		A712/ G2	Manufacturer	0.25	107	26.8				
		A712/ H1	Manufacturer	0.28	38	10.6				
		A712/ J1	Manufacturer	0.25	375	93.8				
		A712/ K1	Manufacturer	0.25	19	4.8				
		A712/ K2	Manufacturer	0.25	8	2.0				
		A712/ L1	Manufacturer	0.28	30	8.4				
		A712/ L2	Manufacturer	0.25	15	3.8				
		A712/ M1	Manufacturer	0.28	15	4.2				
		A712/ M2	Manufacturer	0.25	8	2.0				
		A712/ S1	Manufacturer	0.28	262	73.4				
		A712/ S2	Manufacturer	0.28	78	21.8				
		A712/ S3	Manufacturer	0.28	204	57.1				
		A712/ S4	Manufacturer	0.28	61	17.1				
		A712/ S5	Manufacturer	0.28	133	37.2				
		A712/ S6	Manufacturer	0.28	40	11.2				
A712/ S7	Manufacturer	0.28	196	54.9						
A712/ S8	Manufacturer	0.28	58	16.2						
A712/ S9	Manufacturer	0.28	75	21.0						
A712/ S10	Manufacturer	0.28	20	5.6						
A712/ S11	Manufacturer	0.28	87	24.4						
A712/ S12	Manufacturer	0.28	91	25.5						
A712/ S13	Manufacturer	0.28	17	4.8						
A712/ S14	Manufacturer	0.28	18	5.0						
A712/ S15	Manufacturer	0.28	83	23.2						
A712/ S16	Manufacturer	0.28	58	16.2						
A712/ S17	Manufacturer	0.28	83	23.2						
A712/ S18	Manufacturer	0.28	58	16.2						
A712/ S19	Manufacturer	0.28	83	23.2						
A712/ S20	Manufacturer	0.28	58	16.2						
A712/ S21	Manufacturer	0.28	46	12.9						

		A712/ S22	Manufacturer	0.28	33	9.2	
	Metal, fixed						0.34
							Metal Frame, Fixed U-0.34
	Metal, op.						0.36
							Metal Frame, Operable U-0.36
	Mtl entrance						0.60
							Metal Frame, Entrance Dr. U-0.60
Skylights ¹⁰	All Types						0.45
							All types U-0.45
Refrigerated Space Freezer Floors				Proposed UA		Target UA	
	CI	Plan/Detail #	U-factor Source & Table # ²	U-factor	x Area (A)	= UA (U x A)	U-factor x Area (A) = UA (U x A)
Freezer Floor	R=						
	R=						
	R=						Freezer Floor

	Area ¹	UA	Area ¹	UA
Page 2 Subtotal	6752	1944	6752	2063
Page 1 Subtotal	20914	941	20914	955
Project Total	27666	2885	27666	3018

TO COMPLY - The Proposed Total UA shall not exceed the Target Total UA.

Component Performance Compliance (UA) UA COMPLIES

Refrigerated Space Windows In Doors ^{11, 12}								
		Plan/Detail #	Description	Cooler / Freezer	Double Pane Glass	Triple Pane Glass	Inert Gas Filled	Heat Reflective Treated Glass
Glazing in Doors	In Door							
	Reach in							

- Note 1** - If vertical fenestration or skylight area exceeds maximum allowed per C402.4.1, then Target Area Adjustment of all applicable envelope elements will be calculated automatically by the compliance form. Refer to Target Area Adjustments worksheet for this calculation.
- Note 2** - Opaque assembly U-factors shall come from Appendix A or be calculated per approved method as specified in C402.1.5.1.
- Note 3** - Reserved.
- Note 4** - Semi-heated spaces - For spaces eligible for this wall insulation exception, the UA calculation excludes all wall assemblies. However, wall area values are required to run the window-to-wall ratio calculation. Enter into form all wall types in the semi-heated space. Enter the sf area of each wall type and enter "1" for the U-factor.
- Note 5** - Mass transfer slab edges must be covered with an assembly having an overall U-factor of 0.2.
- Note 6** - Demising walls, doors, and vertical fenestration separating spaces with different degrees of space conditioning (unconditioned, semi-heated, fully conditioned) shall be included only on the ENV-UA form for the space with the greatest degree of space conditioning.
- Note 7** - List Group R above grade mass walls here. List all other above grade walls, Commercial and Group R, in the Opaque Walls - Above Grade section.
- Note 8** - Slab-on-grade F-Factors shall come from Appendix A or calculated per approved method as specified in C402.1.5.1.
- Note 9** - Opaque door U-factors shall come from Appendix A or calculated per approved method as specified in C402.1.5.1. A door is defined as opaque if less than 50% of the door area has glazing.
- Note 10** - Fenestration assembly U-Factors shall be the manufacturer's NFRC product rating, which includes the glazing and frame, or shall be the default value per Section C303.1.3.
- Note 11** - Refrigerated Coolers - Target U-factors for cooler roof, wall and door assemblies are per C410. Enter proposed information under the most similar assembly type. Target F-factors for slab-on-grade floors are per C402. Target U-factors for floors that separate a cooler from a non-cooler space (unconditioned and conditioned) are per C402. Target U-factors for vertical fenestration (not within cooler doors) are per C402. Enter only the opaque portion of refrigerated space doors. Windows within doors and reach-in display case doors shall comply with C410 prescriptive requirements.
- Note 12** - Refrigerated Freezers - Target U-factors for freezer roof, wall and door assemblies are per C410. Enter proposed information under the most similar assembly type. Target U-factor for insulated freezer floors is per C410. Insulation is required under the entire freezer floor. Enter proposed information in the Freezer Floor section. If the freezer floor assembly rests on top of a standard floor, the vertical edge of the freezer floor shall be entered as a section of freezer wall. If freezer floor insulation is installed as integral to or applied underneath a slab-on-grade or exposed floor, this floor area shall be thermally broken from the surrounding floor. Enter proposed thermal break information in the Freezer Floor section and note it as In-Floor Thermal Break. Enter only the opaque portion of freezer doors. Windows within doors and reach-in display case doors shall comply with C410 prescriptive requirements.
- Note 13** - Stand alone projects - Enter total existing-to-remain sf areas for net above grade walls (including opaque doors), net roof, vertical fenestration and skylights in section provided at top of ENV-UA form. Enter UA information for new envelope assemblies in Building Components section.
- Note 14** - Addition + Existing, Alteration + Existing, Addition + Alteration + Existing projects - Enter sf areas and estimated U-factors for all existing-to-remain envelope assemblies in Building Components section. Identify these assemblies as EXISTING in U-factor Source & Table # column.

SHGC Calculation

ENV-SHGC

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Revised Aug 2019

Project Title: CheryStreet Mixed Use		Date: 03/08/2021																															
Target Insulation Allowance: Fully Conditioned Space - Commercial, Group R, Mixed Use		For SDCI Use																															
Fenestration Area as % gross above-grade wall area 32.1% Max. Target: 40%																																	
Skylight Area as % gross roof area Max. Target: 5%																																	
Vertical Fenestration Alternates: High Performance Vertical Fenestration																																	
<p>Notes: 1 - Proposed vertical fenestration and skylight areas entered in ENV-SHGC must match proposed fenestration areas in ENV-UA.</p> <p>2 - If Target Area Adjustment is required per ENV-UA, then target areas will be automatically adjusted in ENV-SHGC. Refer to Target Area Adjustments worksheet for this calculation.</p> <p>3 - Fenestration assembly SHGC shall be the manufacturer's NFRC product rating, or shall be the default value per Section C303.1.3.</p> <p>4 - Fenestration that separates conditioned space from a non-conditioned space shall be included in this worksheet. Enter target SHGC values for this fenestration under proposed SHGC, so it is neutral to the calculation.</p>																																	
User Note																																	
<table border="1"> <thead> <tr> <th colspan="2">Skylights</th> <th colspan="2">Proposed SHGC</th> <th colspan="2">Target SHGC</th> </tr> <tr> <th>Sch. ID</th> <th>Provide SHGC source and fenestration schedule ID</th> <th>SHGC</th> <th>x Area (A) = SHGC x A</th> <th>SHGC</th> <th>x Area (A) = SHGC x A</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>0.32</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>SHGC</td> <td>0.32</td> </tr> <tr> <td colspan="3">Skylight Totals</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Skylights		Proposed SHGC		Target SHGC		Sch. ID	Provide SHGC source and fenestration schedule ID	SHGC	x Area (A) = SHGC x A	SHGC	x Area (A) = SHGC x A					0.32						SHGC	0.32	Skylight Totals					
Skylights		Proposed SHGC		Target SHGC																													
Sch. ID	Provide SHGC source and fenestration schedule ID	SHGC	x Area (A) = SHGC x A	SHGC	x Area (A) = SHGC x A																												
				0.32																													
				SHGC	0.32																												
Skylight Totals																																	

All Non-North Vertical Fenestration+			Proposed SHGC			Target SHGC ++		
Sch. ID	Provide SHGC source and fenestration schedule ID	PF	SHGC	x Area (A) = SHGC x A	PF Category	SHGC	x Area (A) = SHGC x A	
					PF < 0.2	0.35		
					0.2 ≤ PF < 0.5	0.35		
					PF ≥ 0.5	0.35		
					<p>++ If projection factor (PF) credits are applied to the proposed design, Target SHGC will sum fenestration area by PF category.</p>			
Non-North Window Totals								

+ If PF credit is applied, then vertical fenestration must be entered in the correct table according to orientation. If credit is not applied then all vertical fenestration can be entered in either table.

North Vertical Fenestration+			Proposed SHGC			Target SHGC++		
Sch. ID	Provide SHGC source and fenestration schedule ID	PF	SHGC	x Area (A) = SHGC x A	PF Category	SHGC	x Area (A) = SHGC x A	
A712/ A1	Manufacturer		0.33	263	87	PF < 0.2	0.53	5806
A712/ A2	Manufacturer		0.33	132	44	0.2 ≤ PF < 0.5	0.58	
A712/ A3	Manufacturer		0.33	788	260	PF ≥ 0.5	0.64	
A712/ B1	Manufacturer		0.33	188	62	<p>++ If projection factor (PF) credits are applied to the proposed design, Target SHGC will sum fenestration area by PF category.</p>		
A712/ B2	Manufacturer		0.33	94	31			
A712/ B3	Manufacturer		0.33	563	186			
A712/ C1	Manufacturer		0.33	100	33			
A712/ C2	Manufacturer		0.33	50	17			
A712/ C3	Manufacturer		0.33	300	99			
A712/ D1	Manufacturer		0.33	63	21			
A712/ D2	Manufacturer		0.33	32	11			
A712/ D3	Manufacturer		0.33	188	62			
A712/ E1	Manufacturer		0.33	25	8			
A712/ E2	Manufacturer		0.33	50	17			
A712/ F1	Manufacturer		0.33	200	66			
A712/ F2	Manufacturer		0.33	100	33			
A712/ G1	Manufacturer		0.33	213	70			
A712/ G2	Manufacturer		0.33	107	35			
A712/ H1	Manufacturer		0.33	38	13			
A712/ J1	Manufacturer		0.33	375	124			

A712/ K1	Manufacturer	0.33	19	6	
A712/ K2	Manufacturer	0.33	8	3	
A712/ L1	Manufacturer	0.33	30	10	
A712/ L2	Manufacturer	0.33	15	5	
A712/ M1	Manufacturer	0.33	15	5	
A712/ M2	Manufacturer	0.33	8	3	
A712/ S1	Manufacturer	0.33	262	86	
A712/ S2	Manufacturer	0.33	78	26	
A712/ S3	Manufacturer	0.33	204	67	
A712/ S4	Manufacturer	0.33	61	20	
A712/ S5	Manufacturer	0.33	133	44	
A712/ S6	Manufacturer	0.33	40	13	
A712/ S7	Manufacturer	0.33	196	65	
A712/ S8	Manufacturer	0.33	58	19	
A712/ S9	Manufacturer	0.33	75	25	
A712/ S10	Manufacturer	0.33	20	7	
A712/ S11	Manufacturer	0.33	87	29	
A712/ S12	Manufacturer	0.33	91	30	
A712/ S13	Manufacturer	0.33	17	6	
A712/ S14	Manufacturer	0.33	18	6	
A712/ S15	Manufacturer	0.33	83	27	
A712/ S16	Manufacturer	0.33	58	19	
A712/ S17	Manufacturer	0.33	83	27	
A712/ S18	Manufacturer	0.33	58	19	
A712/ S19	Manufacturer	0.33	83	27	
A712/ S20	Manufacturer	0.33	58	19	
A712/ S21	Manufacturer	0.33	46	15	
A712/ S22	Manufacturer	0.33	33	11	
North Window Totals		5806.0	1916.0		
				5806.0	3077.2

TO COMPLY - The Proposed Total SHGC x A shall not exceed the Target Total SHGC x A.

Total (Skylight + Window)

Area	SHGC x A
5806.0	1916.0

Area	SHGC x A
5806.0	3077.2

Component Performance Compliance (SHGC)

SHGC COMPLIES

Building Permit Plans Checklist, pg. 1

ENV-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Revised Aug 2019

Project Title: **CherryStreet Mixed Use**

Date: 03/08/2021

The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Seattle Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	SDCI Notes
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SCOPE

na	C402.1.1	Low energy spaces	Low energy spaces are identified on plans; include project information, and calculations if applicable, that demonstrate spaces are eligible for envelope provisions exemption		
na	C402.1.1.1	Semi-heated spaces	Semi-heated spaces are identified on plans, include calculations that demonstrate spaces are eligible for wall insulation exemption		
na	C402.1.2	Equipment Buildings	Provide building area, average wall and roof U-factor, and installed equipment information that demonstrates equipment building is eligible for envelope provision exemption		
na	C410.2	Walk-in and warehouse cooler and freezer spaces	Cooler and freezer spaces are identified on plans; C410 envelope compliance forms provided (pending)		
na	C101.4.1	Mixed occupancy	Identify boundaries of spaces with different occupancy requirements on plans		
na	C503.2	Change of space conditioning	Identify on plans existing unconditioned spaces changing to semi-heated or conditioned space, and existing semi-heated spaces changing to conditioned space; also identify heated but not cooled space larger than 2000 SF changing to both heated and cooled; provide calculations for existing and final level of space conditioning, and calculations that demonstrate alteration complies with current SEC		
na	C505.1	Change of occupancy	Identify on plans existing F, S and U-occupancy spaces undergoing a change in occupancy; provide calculations that demonstrate alteration complies with the current SEC Identify on plans pre-2002 Group R spaces undergoing a change to a commercial occupancy; provide calculations that demonstrate alteration complies with the current SEC Identify on plans non-Group R occupancy spaces undergoing a change to Group R; provide calculations that demonstrate alteration complies with the current SEC		

ENVELOPE PROVISIONS

yes	C103.2 C103.6.3	Compliance documentation	Indicate envelope insulation compliance path and provide applicable forms; ENV-PRESCRIPTIVE or ENV-UA / ENV-SHGC for component performance If complying via total building performance, provide a list of all proposed envelope component types, areas and U-values	See ENV-SUM	
yes	C303.1.1 C303.1.2	Insulation identification	Indicate identification mark shall be applied to all insulation materials and insulation installed such that the mark is readily observable during inspection	See A701	
yes	C303.1.3 C402.4.3	Fenestration product rating	Fenestration products shall be labeled with rated U-factor, SHGC, VT, and leakage rating	See A712	
yes	C303.1.1 C402.2.1	General insulation installation	Indicate installation methods, thicknesses, densities and clearances to achieve the intended R-value of all insulation materials; Where two or more layers of rigid insulation will be used, indicate that edge joints between layers are staggered	See A701	
yes	C103.2 C402.2.2	Roof assembly insulation	Indicate R-value(s) of cavity/continuous insulation on roof sections; Indicate framing materials on roof sections; Indicate method of framing for ceilings below vented attics and vaulted ceilings per A102.2 (std, adv); Provide area weighted average U-factor calculation for insulation whose thickness varies by 1 inch or less; Indicate effective U-factors of tapered insulation entirely above deck per A102.2.6; include roof configuration and slope, maximum R-value at peak and minimum R-value at low point for all roof surfaces Indicate R-values for thermal spacers and each insulation layer, and liner system (LS) method for metal building roofs	See A702	
na	C402.2.2	Skylight curb insulation	Indicate curb insulation R-value on roof section if not included in skylight NFRC rating		
yes	C103.2 C402.2.3 C402.2.4 C303.2.1	Above/below grade wall insulation	Indicate R-value(s) of cavity/continuous insulation on wall sections; Indicate framing materials on wall sections; Indicate method of framing for wood const per A103.2 (std, int, adv); Indicate material density category, wall weight and heat capacity for qualifying mass walls; For qualifying ASTM C90 masonry walls, indicate loose-fill core insulation material and percentage of cores filled including grouted cores, bond beams, vertical fills, headers and any other grouted cores; Indicate method of protection of exposed exterior basement/crawlspace wall insulation	See A701	

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ENV-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Project Title: CherryStreet Mixed Use				Date: 03/08/2021	
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
yes	C103.2 C402.4.4	Opaque doors	Indicate rated U-factor (swinging) or R-value (non-swinging - roll-up/sliding) on wall sections or in door schedules - applies to doors with less than 50% glazed area	See A711	
na	C402.2.5	Floor over outdoor or unconditioned space insulation	Indicate R-value(s) of cavity/continuous insulation on floor sections; Indicate framing material on floor sections; Indicate material density category and weight of qualifying mass floors		
yes	C402.2.6 C303.2.1	Slab-on-grade floor insulation	Indicate R-value of continuous insulation on wall section or foundation detail; Indicate insulation extends down vertically and/or horizontally the required distance from top of slab; Indicate method of protection of exposed exterior slab edge insulation	See A702	
na	C402.2.6 C303.2.1	Radiantly heated slab-on-grade floor insulation	Indicate R-value of continuous insulation on wall section or foundation detail; Indicate insulation extends down vertically from top of slab and then horizontally under the entire slab; Indicate method of protection of exposed exterior slab edge insulation		
na	C402.2.8	Radiant heating system insulation	Indicate insulation R-value behind radiant panels, U-bend/headers and bottom surface of radiantly heated floors (other than radiantly heated slab-on-grade)		
yes	C402.4.1 C502.2.1 C503.3.2	Vertical fenestration maximum area	Provide calculation for total vertical fenestration area as a percentage of gross above grade wall area (WWR) for new construction, additions and alterations in ENV-SUM	See ENV-SUM	
na	C402.4.1.1 C405.2.4.1 C502.2.1 C503.3.2	Increased prescriptive maximum vertical fenestration area with daylight zones and controls	Provide calculations showing that the percentage of overall conditioned floor area within daylight zones is equal to or greater than 50% in 1 & 2 story buildings: OR Provide calculations showing that the percentage of overall net floor area within daylight zones is equal to or greater than 25% in buildings 3 stories or more; include the gross floor area and list of spaces omitted for the net floor area; Note in envelope plans that all lighting fixtures located within daylight zones shall be provided with daylight responsive controls per SEC Section C405.2.4.1; indicate method of control in lighting fixture schedules Indicate that the VT of vertical fenestration is at least 1.1 times the rated SHGC		
yes	C402.4.1.3 C502.2.1 C503.3.2	Increased prescriptive maximum vertical fenestration area with high-performance glazing	Indicate high performance U-factors and SHGC values in fenestration schedules; Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.3; provide U-factor calculations	See A712	
na	C402.4.1.4 C403.6	Increased prescriptive maximum vertical fenestration area with DOAS mechanical systems	Indicate that for eligibility, all occupied, conditioned spaces will be served by a dedicated outside air system (DOAS) that delivers ventilation air without requiring operation of the heating/cooling system per Section C403.6		
	C402.1.5	Wall/vertical fenestration target area adjustment	Indicate if component performance with target area adjustment will be used to account for vertical fenestration area in excess of the prescriptive maximum allowed		
na	C402.4.1 C502.2.2 C503.3.3	Skylight maximum area	Provide calculation for total skylight area as a percentage of gross roof area (SRR) for new construction, additions and alterations in ENV-SUM		
na	C402.1.5.2	Roof/skylight target area adjustment	Indicate if component performance with target area adjustment will be used to account for skylight area in excess of the prescriptive maximum allowed		
yes	C402.4.3 C303.1.3	U-factors, SHGC and VT for all fenestration assemblies	Indicate U-factors, SHGC and VT values in fenestration schedules; Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.3; provide U-factor calculations Indicate if values are NFRC or default; if default then specify frame type, glazing layers, gap width, low-e coatings, gas-fill	See A712	
na	C402.4	HVAC Heating Energy Type	Indicate HVAC Heating Energy Type for each calculation area. After 1/1/2018 provide description and calculation for any exceptions utilized		
na	C402.4.3	Permanent shading devices	For windows with overhangs or permanent projection shading devices, provide projection factor calculations (Equation C4-6) and associated minimum SHGC for north and non-north orientations		

Building Permit Plans Checklist, pg. 3

ENV-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Project Title: CherryStreet Mixed Use				Date	
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
na	C402.4.2	Spaces in single story buildings requiring skylights	In single story buildings, provide list of enclosed spaces that exceed 2,500 sf; for each space identify the space use, floor area, floor-to-ceiling height, whether skylights are installed or exception taken;		
			For each space requiring skylights, provide calculation of percentage of conditioned floor area located within a top daylight zone;		
			For each space requiring skylights, calculate the ratio of skylight area to top light daylight zone area; min 3%, OR;		
			Calculate skylight effective aperture (Equation C4-5) within the top daylight zone; min. 1%		
			Indicate haze factor of skylight glazing material or diffuser		

ADDITIONAL EFFICIENCY PACKAGE OPTION - ENHANCED ENVELOPE PERFORMANCE

na	C406.8	Enhanced envelope performance	To comply with additional efficiency package option, demonstrate envelope insulation compliance via component performance; provide ENV-UA / ENV-SHGC compliance forms; verify that building total UA is 15% lower than the Code target UA		
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AIR LEAKAGE

yes	C402.5.1.1	Air barrier construction and sealing	Identify location and provide diagram of continuous air barrier in plans and sections; Provide details for all joints, transitions in materials, penetrations in air barrier and note method of sealing (caulked, gasketed, or other approved method)	See G001	
na	C402.5.3	Rooms containing open combustion fuel burning appliances used for space conditioning	Indicate that room(s) containing non-direct vent appliances is isolated from conditioned space by the thermal envelope with a sealed air barrier, including doorway gasketing and sealing around ductwork and piping penetrations; Indicate insulation provided in wall, floor and ceiling of the room envelope, and insulation required on combustion air ductwork		
na	C402.5.4	Access openings and doors to shafts, chutes, stairways and doors	Indicate locations of all access openings and doors to shafts, chutes, stairways and elevators; Indicate method of gasketing, weatherstripping and sealing of these openings		
	C402.5.5 C403.2.4.3	Outdoor air intakes, exhausts and relief openings	Indicate locations of all stairway enclosure, elevator shaft and building pressurization relief openings, outside air intakes and exhaust openings; Note in envelope plans that all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical Section C403.2.4.3		
na	C402.5.8	Recessed lighting in building envelope	Indicate method of sealing between light fixture housing and wall or ceiling; Note in envelope plans that all recessed lighting fixtures shall be IC rated and have an air leakage rating not greater than 2 cfm per ASTM E283 test; include these requirements in lighting fixture schedules		
na	C402.5.6	Loading dock seals	Indicate weather seal at cargo and loading dock doors		
yes	C402.5.7	Vestibules	Indicate locations and dimensions of vestibules and air curtains; Indicate exception and criteria utilized for all building entrances and exits that do not have a vestibule or air curtain; Indicate required performance for air curtains installed per exception 7; For unconditioned vestibules, indicate which envelope assembly (interior or exterior) complies with the requirements for a conditioned space	See A111	
yes	C103.2 C402.5.1.2	Building air leakage test	Indicate on plans the location of air barrier boundaries and area calculations on all six sides of the air barrier; Indicate air barrier test method in accordance with ASTM E779 or approved equivalent; Indicate required maximum leakage rate for compliance. Include the following requirements in project documents: (1) Submit air barrier test report to jurisdiction once test is completed; (2) If test results exceed 0.30 cfm/ft ² at 0.3 in. wg (1.5 L/s x m ² at 75 Pa), then visually inspect air barrier and seal noted sources of leakage and submit a follow-up report to jurisdiction noting corrective measures taken; (3) Include air barrier test report in compliance documentation provided to owner.	See G001	

Building Permit Plans Checklist, pg. 4

ENV-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1

Revised Aug 2019

Project Title: CherryStreet Mixed Use				Date 03/08/2021	
Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
ADDITIONAL EFFICIENCY PACKAGE OPTION - REDUCED AIR INFILTRATION					
yes	C406.9	Reduced air infiltration	If option C406.9 is selected, indicate in project documents that the air barrier test results shall not exceed 0.25 cfm/ft ² (1.27 L/s*m ²) for Group R buildings, and 0.22 cfm/ft ² (1.11 L/s*m ²) for all others, at 0.3 in. wg (75 Pa); indicate air barrier test report shall be submitted to the jurisdiction and building owner once test is completed	See G001	

ALTERATIONS					
na	C503.1 C503.3.1	Roof alteration - insulation	For a roof alteration where existing ceiling cavities are exposed, indicate cavities are insulated to full depth at R-3 per inch For a roof covering replacement where insulation is installed entirely above the roof deck, indicate insulation complies with requirements for new construction per Tables C402.1.3 or C402.1.4		
na	C503.1	Wall and floor alteration - insulation	For a wall or floor alteration (floor over outdoor or unconditioned space) where existing envelope cavities are exposed, indicate cavities are insulated to full depth at R-3 per inch		
na	C503.3.2	Addition of vertical fenestration	Where the addition of new vertical fenestration results in total building window-to-wall ratio (WWR) exceeding the maximum allowed per C402.4.1, demonstrate method of compliance (vertical fenestration alternate per C503.3.2, or component performance compliance with target area adjustment for the total building)		
na	C503.3.3	Addition of skylights	Where the addition of new skylights results in total building skylight-to-roof ratio (SRR) exceeding the maximum allowed per C402.4.1, demonstrate component performance compliance with target area adjustment for the total building		
PROJECT CLOSE OUT DOCUMENTATION					
yes	C103.6.3	Project close out documentation requirements	Indicate in plans that project close out documentation is required including applicable WSEC envelope compliance forms and calculations, and fenestration NFRC rating certificates	See G001	

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End of Building Permit Plans Checklist